

Christian Nkoy . Jarvis Consulting

I studied computer science and mathematics at university. Through my education, I acquired a strong foundation in computer science concepts and valuable problem-solving abilities. I work at Jarvis as a software developer. I am eager to take on the role of a full-stack software developer, where I can apply my skills to solve real-world problems and positively impact how technology is utilized. My key strengths include a strong mathematical background, proficiency in multiple languages, and a constant drive to learn and improve. You can catch me on a soccer field or playing a strategy game when I am not writing code.

Skills

Proficient: Java, Python, Linux/Bash, RDBMS/SQL, Git, IntelliJ, Agile/Scrum, Cloud Platform

Competent: HTML, CSS, JavaScript, Docker, PostgreSQL, Maven, JUnit, REST API, Multi-threaded programming

Familiar: C, C++, C#, Flask, NodeJS, ReactJS, Mockito, Event-driven programming

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_ChristianNkoy

Cluster Monitor [GitHub]: Cluster Monitor is a monitoring agent for a Linux cluster. The monitoring agent collects hardware specifications for each host once, then automatically gathers their resource usage data every minute. I used Bash scripts for the collection of data. I leveraged CentOS's crontab to automate the resource usage data collection process. The data is persisted in a PostgreSQL database. I conducted testing on a single machine using various queries and deployed the app using Docker.

Core Java Apps [GitHub]:

- **JDBC App:** An application that performs CRUD operations on a PostgreSQL database. It allows the user to connect to the database and execute SQL statements on it. I implemented Java's JDBC API and made use of the DAO pattern to enable the application to connect to and modify the database. I tested the app with various SQL queries and deployed it using Docker.
- **Grep App:** Grep App is an application that mimics Linux's grep command. The application scans an input file for a specific string and writes each line that contained a match to an output file. I implemented the app using Java's tools and features, such as the Stream API and Lambda expressions, and IntelliJ. I utilized Maven for package management and tested the application with multiple text files and string inputs. I used Docker to deploy the app.

Highlighted Projects

Nim-move [GitHub]: Nim-move is a program that suggests the best move to the user in the game of Nim. I collaborated with a team on designing an algorithm that utilized a min-max tree to determine the optimal move in the game of Nim for a given game state. I implemented the algorithm using Python. I tested the application by playing multiple games and keeping track of the winning/losing record. The program was successful, winning first place in a competition.

VM [GitHub]: VM is an implementation of a basic virtual machine. I used Java and multi-threaded programming features, including Runnable, Thread, Lock, and BufferedReader to build the application. I tested the functionalities of the VM to ensure correct operation. I deployed the app using GitHub.

Professional Experiences

Software Developer, Jarvis (November 2022 - present): I work on various projects using relevant technologies such as Linux/Bash, Java, PostgreSQL, Git, and Docker. I collaborate with a team by leveraging the Agile methodology for software development to achieve project goals. As a team lead, I organized daily scrums and communicated with the team about sprint goals, progress, and impediments. I also generated a daily summary of scrum meetings and made it available to the scrum master and product owner.

Technical Services Specialist - Seasonal, Sterling Operations (May 2018 - October 2021): I employed innovative and efficient measures to treat 750+ sites for vegetation and erosion control every season with a 95+% success rate. I trained and mentored new employees and helped them achieve competency in their roles in minimal time. In addition, I communicated regularly with stakeholders to plan and coordinate the implementation of control measures.

Education

University of Northern British Columbia (2018-2021), Bachelor of Science, Computer Science

University of Northern British Columbia (2016-2018), Bachelor of Science, Mathematics

Miscellaneous

- Occupational First Aid Certification
- UNBC Soccer Intramurals Champion
- Strategy Games